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GLASSY MATERIALS AND DISORDERED SOLIDS

An Introduction to their Statistical Mechanics

Revised Edition

This book gives a pedagogical introduction to the physics of amorphous solids and related disorders condensed-matter systems. Important concepts from statistical mechanics such as percolation, random walks, fractals and spin glasses are explained. Using these concepts, the common aspects of these systems are emphasized and the current understanding of the glass transition and the structure of glasses is concisely reviewed.

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